

# SEQUENCE LISTING

<110> Simard, John J. L.  
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<120> EPITOPE SEQUENCES

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<151> 2002-09-06

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<210> 34

<211> 9

<212> PRT

<213> Homo sapiens

<400> 34

Gly Met Pro Glu Gly Asp Leu Val Tyr

1                      5  
  
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 <211> 10  
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 <213> Homo sapiens  
  
 <400> 35  
 Gln Gly Met Pro Glu Gly Asp Leu Val Tyr  
   1                      5                      10  
  
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 <211> 8  
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 <213> Homo sapiens  
  
 <400> 36  
 Met Pro Glu Gly Asp Leu Val Tyr  
   1                      5  
  
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 <211> 9  
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 <400> 37  
 Glu Gly Asp Leu Val Tyr Val Asn Tyr  
   1                      5  
  
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 <213> Homo sapiens  
  
 <400> 38  
 Pro Glu Gly Asp Leu Val Tyr Val Asn Tyr  
   1                      5                      10  
  
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 <211> 10  
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 <213> Homo sapiens  
  
 <400> 39  
 Leu Val Tyr Val Asn Tyr Ala Arg Thr Glu  
   1                      5                      10  
  
 <210> 40  
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 <212> PRT  
 <213> Homo sapiens

<400> 40  
 Val Asn Tyr Ala Arg Thr Glu Asp Phe  
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<210> 41  
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 <213> Homo sapiens

<400> 41  
 Tyr Val Asn Tyr Ala Arg Thr Glu Asp Phe  
 1 5 10

<210> 42  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 42  
 Asn Tyr Ala Arg Thr Glu Asp Phe Phe  
 1 5

<210> 43  
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<400> 43  
 Tyr Ala Arg Thr Glu Asp Phe Phe  
 1 5

<210> 44  
 <211> 9  
 <212> PRT  
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<400> 44  
 Arg Thr Glu Asp Phe Phe Lys Leu Glu  
 1 5

<210> 45  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 45  
 Arg Gly Ile Ala Glu Ala Val Gly Leu Pro Ser Ile Pro Val His Pro  
 1 5 10 15  
 Ile Gly Tyr Tyr Asp Ala Gln Lys Leu Leu Glu Lys Met Gly  
 20 25 30

<210> 46  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 46  
Ile Ala Glu Ala Val Gly Leu Pro Ser Ile Pro Val His Pro Ile Gly  
1 5 10 15  
Tyr Tyr Asp Ala Gln Lys Leu Leu Glu  
20 25

<210> 47  
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<212> PRT  
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<400> 47  
Leu Pro Ser Ile Pro Val His Pro Ile  
1 5

<210> 48  
<211> 10  
<212> PRT  
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<400> 48  
Gly Leu Pro Ser Ile Pro Val His Pro Ile  
1 5 10

<210> 49  
<211> 9  
<212> PRT  
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<400> 49  
Ile Gly Tyr Tyr Asp Ala Gln Lys Leu  
1 5

<210> 50  
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<400> 50  
Pro Ile Gly Tyr Tyr Asp Ala Gln Lys Leu  
1 5 10

<210> 51  
<211> 9  
<212> PRT  
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<400> 51  
Ser Ile Pro Val His Pro Ile Gly Tyr  
1 5

<210> 52  
<211> 10  
<212> PRT  
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<400> 52  
Pro Ser Ile Pro Val His Pro Ile Gly Tyr  
1 5 10

<210> 53  
<211> 8  
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<400> 53  
Ile Pro Val His Pro Ile Gly Tyr  
1 5

<210> 54  
<211> 9  
<212> PRT  
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<400> 54  
Tyr Tyr Asp Ala Gln Lys Leu Leu Glu  
1 5

<210> 55  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 55  
Ser Ser Ile Glu Gly Asn Tyr Thr Leu Arg Val Asp Cys Thr Pro Leu  
1 5 10 15  
Met Tyr Ser Leu Val His Leu Thr Lys Glu Leu  
20 25

<210> 56  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 56  
Ile Glu Gly Asn Tyr Thr Leu Arg Val  
1 5

<210> 57  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 57  
Ser Ile Glu Gly Asn Tyr Thr Leu Arg Val  
1 5 10

<210> 58  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 58  
Glu Gly Asn Tyr Thr Leu Arg Val  
1 5

<210> 59  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 59  
Thr Leu Arg Val Asp Cys Thr Pro Leu  
1 5

<210> 60  
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<212> PRT  
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<400> 60  
Tyr Thr Leu Arg Val Asp Cys Thr Pro Leu  
1 5 10

<210> 61  
<211> 9  
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<400> 61  
Leu Arg Val Asp Cys Thr Pro Leu Met  
1 5

<210> 62  
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<400> 62

Arg Val Asp Cys Thr Pro Leu Met Tyr  
1 5

<210> 63  
<211> 10  
<212> PRT  
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<400> 63  
Leu Arg Val Asp Cys Thr Pro Leu Met Tyr  
1 5 10

<210> 64  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 64  
Phe Asp Lys Ser Asn Pro Ile Val Leu Arg Met Met Asn Asp Gln Leu  
1 5 10 15  
Met Phe Leu Glu Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro Asp Arg  
20 25 30  
Pro Phe Tyr  
35

<210> 65  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 65  
Val Leu Arg Met Met Asn Asp Gln Leu Met Phe Leu Glu Arg Ala Phe  
1 5 10 15  
Ile Asp Pro Leu Gly Leu  
20

<210> 66  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 66  
Met Met Asn Asp Gln Leu Met Phe Leu  
1 5

<210> 67  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 67  
Arg Met Met Asn Asp Gln Leu Met Phe Leu

1 5 10

<210> 68  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 68  
 Arg Met Met Asn Asp Gln Leu Met Phe  
 1 5

<210> 69  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 69  
 Met Leu Leu Ala Val Leu Tyr Cys Leu Leu Trp Ser Phe Gln Thr Ser  
 1 5 10 15  
 Ala

<210> 70  
 <211> 661  
 <212> PRT  
 <213> Homo sapiens

<400> 70  
 Met Asp Leu Val Leu Lys Arg Cys Leu Leu His Leu Ala Val Ile Gly  
 1 5 10 15  
 Ala Leu Leu Ala Val Gly Ala Thr Lys Val Pro Arg Asn Gln Asp Trp  
 20 25 30  
 Leu Gly Val Ser Arg Gln Leu Arg Thr Lys Ala Trp Asn Arg Gln Leu  
 35 40 45  
 Tyr Pro Glu Trp Thr Glu Ala Gln Arg Leu Asp Cys Trp Arg Gly Gly  
 50 55 60  
 Gln Val Ser Leu Lys Val Ser Asn Asp Gly Pro Thr Leu Ile Gly Ala  
 65 70 75 80  
 Asn Ala Ser Phe Ser Ile Ala Leu Asn Phe Pro Gly Ser Gln Lys Val  
 85 90 95  
 Leu Pro Asp Gly Gln Val Ile Trp Val Asn Asn Thr Ile Ile Asn Gly  
 100 105 110  
 Ser Gln Val Trp Gly Gly Gln Pro Val Tyr Pro Gln Glu Thr Asp Asp  
 115 120 125  
 Ala Cys Ile Phe Pro Asp Gly Gly Pro Cys Pro Ser Gly Ser Trp Ser  
 130 135 140  
 Gln Lys Arg Ser Phe Val Tyr Val Trp Lys Thr Trp Gly Gln Tyr Trp  
 145 150 155 160  
 Gln Val Leu Gly Gly Pro Val Ser Gly Leu Ser Ile Gly Thr Gly Arg  
 165 170 175  
 Ala Met Leu Gly Thr His Thr Met Glu Val Thr Val Tyr His Arg Arg  
 180 185 190  
 Gly Ser Arg Ser Tyr Val Pro Leu Ala His Ser Ser Ser Ala Phe Thr  
 195 200 205

Ile	Thr	Asp	Gln	Val	Pro	Phe	Ser	Val	Ser	Val	Ser	Gln	Leu	Arg	Ala	210	215	220
Leu	Asp	Gly	Gly	Asn	Lys	His	Phe	Leu	Arg	Asn	Gln	Pro	Leu	Thr	Phe	225	230	235
Ala	Leu	Gln	Leu	His	Asp	Pro	Ser	Gly	Tyr	Leu	Ala	Glu	Ala	Asp	Leu	245	250	255
Ser	Tyr	Thr	Trp	Asp	Phe	Gly	Asp	Ser	Ser	Gly	Thr	Leu	Ile	Ser	Arg	260	265	270
Ala	Pro	Val	Val	Thr	His	Thr	Tyr	Leu	Glu	Pro	Gly	Pro	Val	Thr	Ala	275	280	285
Gln	Val	Val	Leu	Gln	Ala	Ala	Ile	Pro	Leu	Thr	Ser	Cys	Gly	Ser	Ser	290	295	300
Pro	Val	Pro	Gly	Thr	Thr	Asp	Gly	His	Arg	Pro	Thr	Ala	Glu	Ala	Pro	305	310	315
Asn	Thr	Thr	Ala	Gly	Gln	Val	Pro	Thr	Thr	Glu	Val	Val	Gly	Thr	Thr	325	330	335
Pro	Gly	Gln	Ala	Pro	Thr	Ala	Glu	Pro	Ser	Gly	Thr	Thr	Ser	Val	Gln	340	345	350
Val	Pro	Thr	Thr	Glu	Val	Ile	Ser	Thr	Ala	Pro	Val	Gln	Met	Pro	Thr	355	360	365
Ala	Glu	Ser	Thr	Gly	Met	Thr	Pro	Glu	Lys	Val	Pro	Val	Ser	Glu	Val	370	375	380
Met	Gly	Thr	Thr	Leu	Ala	Glu	Met	Ser	Thr	Pro	Glu	Ala	Thr	Gly	Met	385	390	395
Thr	Pro	Ala	Glu	Val	Ser	Ile	Val	Val	Leu	Ser	Gly	Thr	Thr	Ala	Ala	405	410	415
Gln	Val	Thr	Thr	Thr	Glu	Trp	Val	Glu	Thr	Thr	Ala	Arg	Glu	Leu	Pro	420	425	430
Ile	Pro	Glu	Pro	Glu	Gly	Pro	Asp	Ala	Ser	Ser	Ile	Met	Ser	Thr	Glu	435	440	445
Ser	Ile	Thr	Gly	Ser	Leu	Gly	Pro	Leu	Leu	Asp	Gly	Thr	Ala	Thr	Leu	450	455	460
Arg	Leu	Val	Lys	Arg	Gln	Val	Pro	Leu	Asp	Cys	Val	Leu	Tyr	Arg	Tyr	465	470	475
Gly	Ser	Phe	Ser	Val	Thr	Leu	Asp	Ile	Val	Gln	Gly	Ile	Glu	Ser	Ala	485	490	495
Glu	Ile	Leu	Gln	Ala	Val	Pro	Ser	Gly	Glu	Gly	Asp	Ala	Phe	Glu	Leu	500	505	510
Thr	Val	Ser	Cys	Gln	Gly	Gly	Leu	Pro	Lys	Glu	Ala	Cys	Met	Glu	Ile	515	520	525
Ser	Ser	Pro	Gly	Cys	Gln	Pro	Pro	Ala	Gln	Arg	Leu	Cys	Gln	Pro	Val	530	535	540
Leu	Pro	Ser	Pro	Ala	Cys	Gln	Leu	Val	Leu	His	Gln	Ile	Leu	Lys	Gly	545	550	555
Gly	Ser	Gly	Thr	Tyr	Cys	Leu	Asn	Val	Ser	Leu	Ala	Asp	Thr	Asn	Ser	565	570	575
Leu	Ala	Val	Val	Ser	Thr	Gln	Leu	Ile	Met	Pro	Gly	Gln	Glu	Ala	Gly	580	585	590
Leu	Gly	Gln	Val	Pro	Leu	Ile	Val	Gly	Ile	Leu	Leu	Val	Leu	Met	Ala	595	600	605
Val	Val	Leu	Ala	Ser	Leu	Ile	Tyr	Arg	Arg	Arg	Leu	Met	Lys	Gln	Asp	610	615	620
Phe	Ser	Val	Pro	Gln	Leu	Pro	His	Ser	Ser	Ser	His	Trp	Leu	Arg	Leu	625	630	635
Pro	Arg	Ile	Phe	Cys	Ser	Cys	Pro	Ile	Gly	Glu	Asn	Ser	Pro	Leu	Leu	645	650	655
Ser	Gly	Gln	Gln	Val														

<210> 71  
 <211> 309  
 <212> PRT  
 <213> Homo sapiens

<400> 71  
 Met Ser Leu Glu Gln Arg Ser Leu His Cys Lys Pro Glu Glu Ala Leu  
 1 5 10 15  
 Glu Ala Gln Gln Glu Ala Leu Gly Leu Val Cys Val Gln Ala Ala Thr  
 20 25 30  
 Ser Ser Ser Ser Pro Leu Val Leu Gly Thr Leu Glu Glu Val Pro Thr  
 35 40 45  
 Ala Gly Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala Phe  
 50 55 60  
 Pro Thr Thr Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser Glu Gly Ser  
 65 70 75 80  
 Ser Ser Arg Glu Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu Glu Ser  
 85 90 95  
 Leu Phe Arg Ala Val Ile Thr Lys Lys Val Ala Asp Leu Val Gly Phe  
 100 105 110  
 Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met  
 115 120 125  
 Leu Glu Ser Val Ile Lys Asn Tyr Lys His Cys Phe Pro Glu Ile Phe  
 130 135 140  
 Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys  
 145 150 155 160  
 Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val Thr Cys Leu Gly  
 165 170 175  
 Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Thr  
 180 185 190  
 Gly Phe Leu Ile Ile Val Leu Val Met Ile Ala Met Glu Gly Gly His  
 195 200 205  
 Ala Pro Glu Glu Glu Ile Trp Glu Glu Leu Ser Val Met Glu Val Tyr  
 210 215 220  
 Asp Gly Arg Glu His Ser Ala Tyr Gly Glu Pro Arg Lys Leu Leu Thr  
 225 230 235 240  
 Gln Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg Gln Val Pro Asp  
 245 250 255  
 Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Ala  
 260 265 270  
 Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala  
 275 280 285  
 Arg Val Arg Phe Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu  
 290 295 300  
 Glu Glu Glu Gly Val  
 305

<210> 72  
 <211> 314  
 <212> PRT  
 <213> Homo sapiens

<400> 72

Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu  
 1 5 10 15  
 Glu Ala Arg Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala  
 20 25 30  
 Thr Glu Glu Gln Gln Thr Ala Ser Ser Ser Thr Leu Val Glu Val  
 35 40 45  
 Thr Leu Gly Glu Val Pro Ala Ala Asp Ser Pro Ser Pro Pro His Ser  
 50 55 60  
 Pro Gln Gly Ala Ser Ser Phe Ser Thr Thr Ile Asn Tyr Thr Leu Trp  
 65 70 75 80  
 Arg Gln Ser Asp Glu Gly Ser Ser Asn Gln Glu Glu Glu Gly Pro Arg  
 85 90 95  
 Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys  
 100 105 110  
 Met Val Glu Leu Val His Phe Leu Leu Lys Tyr Arg Ala Arg Glu  
 115 120 125  
 Pro Val Thr Lys Ala Glu Met Leu Glu Ser Val Leu Arg Asn Cys Gln  
 130 135 140  
 Asp Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu  
 145 150 155 160  
 Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr  
 165 170 175  
 Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp  
 180 185 190  
 Asn Gln Val Met Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile  
 195 200 205  
 Ile Ala Ile Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp Glu Glu  
 210 215 220  
 Leu Ser Met Leu Glu Val Phe Glu Gly Arg Glu Asp Ser Val Phe Ala  
 225 230 235 240  
 His Pro Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu  
 245 250 255  
 Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu  
 260 265 270  
 Trp Gly Pro Arg Ala Leu Ile Glu Thr Ser Tyr Val Lys Val Leu His  
 275 280 285  
 His Thr Leu Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro Pro Leu  
 290 295 300  
 His Glu Arg Ala Leu Arg Glu Gly Glu Glu  
 305 310

<210> 73

<211> 314

<212> PRT

<213> Homo sapiens

<400> 73

Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu  
 1 5 10 15  
 Glu Ala Arg Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala  
 20 25 30  
 Thr Glu Glu Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu Val Glu Val  
 35 40 45  
 Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser  
 50 55 60  
 Pro Gln Gly Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp

65					70					75				80
Ser	Gln	Ser	Tyr	Glu	Asp	Ser	Ser	Asn	Gln	Glu	Glu	Glu	Gly	Pro
				85					90					95
Thr	Phe	Pro	Asp	Leu	Glu	Ser	Glu	Phe	Gln	Ala	Ala	Leu	Ser	Arg
			100					105					110	Lys
Val	Ala	Glu	Leu	Val	His	Phe	Leu	Leu	Leu	Lys	Tyr	Arg	Ala	Arg
		115					120					125		Glu
Pro	Val	Thr	Lys	Ala	Glu	Met	Leu	Gly	Ser	Val	Val	Gly	Asn	Trp
		130				135					140			Gln
Tyr	Phe	Phe	Pro	Val	Ile	Phe	Ser	Lys	Ala	Ser	Ser	Ser	Leu	Gln
145					150				155					160
Val	Phe	Gly	Ile	Glu	Leu	Met	Glu	Val	Asp	Pro	Ile	Gly	His	Leu
			165						170					Tyr
Ile	Phe	Ala	Thr	Cys	Leu	Gly	Leu	Ser	Tyr	Asp	Gly	Leu	Leu	Gly
			180					185					190	Asp
Asn	Gln	Ile	Met	Pro	Lys	Ala	Gly	Leu	Leu	Ile	Ile	Val	Leu	Ala
		195					200					205		Ile
Ile	Ala	Arg	Glu	Gly	Asp	Cys	Ala	Pro	Glu	Glu	Lys	Ile	Trp	Glu
	210				215						220			Glu
Leu	Ser	Val	Leu	Glu	Val	Phe	Glu	Gly	Arg	Glu	Asp	Ser	Ile	Leu
225					230					235				Gly
Asp	Pro	Lys	Lys	Leu	Leu	Thr	Gln	His	Phe	Val	Gln	Glu	Asn	Tyr
				245					250					255
Glu	Tyr	Arg	Gln	Val	Pro	Gly	Ser	Asp	Pro	Ala	Cys	Tyr	Glu	Phe
			260					265					270	Leu
Trp	Gly	Pro	Arg	Ala	Leu	Val	Glu	Thr	Ser	Tyr	Val	Lys	Val	Leu
		275					280					285		His
His	Met	Val	Lys	Ile	Ser	Gly	Gly	Pro	His	Ile	Ser	Tyr	Pro	Pro
	290					295					300			Leu
His	Glu	Trp	Val	Leu	Arg	Glu	Gly	Glu	Glu					
305					310									

<210> 74  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 74														
Met	Gln	Ala	Glu	Gly	Arg	Gly	Thr	Gly	Gly	Ser	Thr	Gly	Asp	Ala
1				5					10					15
Gly	Pro	Gly	Gly	Pro	Gly	Ile	Pro	Asp	Gly	Pro	Gly	Gly	Asn	Ala
			20					25					30	Gly
Gly	Pro	Gly	Glu	Ala	Gly	Ala	Thr	Gly	Gly	Arg	Gly	Pro	Arg	Gly
			35				40					45		Ala
Gly	Ala	Ala	Arg	Ala	Ser	Gly	Pro	Gly	Gly	Gly	Ala	Pro	Arg	Gly
	50					55					60			Pro
His	Gly	Gly	Ala	Ala	Ser	Gly	Leu	Asn	Gly	Cys	Cys	Arg	Cys	Gly
65					70				75					80
Arg	Gly	Pro	Glu	Ser	Arg	Leu	Leu	Glu	Phe	Tyr	Leu	Ala	Met	Pro
				85					90				95	Phe
Ala	Thr	Pro	Met	Glu	Ala	Glu	Leu	Ala	Arg	Arg	Ser	Leu	Ala	Gln
			100					105					110	Asp
Ala	Pro	Pro	Leu	Pro	Val	Pro	Gly	Val	Leu	Leu	Lys	Glu	Phe	Thr
		115					120					125		Val
Ser	Gly	Asn	Ile	Leu	Thr	Ile	Arg	Leu	Thr	Ala	Ala	Asp	His	Arg
	130					135					140			Gln

Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met  
 145 150 155 160  
 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser  
 165 170 175  
 Gly Gln Arg Arg  
 180

<210> 75  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 75  
 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
 1 5 10 15  
 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
 20 25 30  
 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
 35 40 45  
 Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Pro  
 50 55 60  
 His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg Cys Pro Cys Gly Ala  
 65 70 75 80  
 Arg Arg Pro Asp Ser Arg Leu Leu Glu Leu His Ile Thr Met Pro Phe  
 85 90 95  
 Ser Ser Pro Met Glu Ala Glu Leu Val Arg Arg Ile Leu Ser Arg Asp  
 100 105 110  
 Ala Ala Pro Leu Pro Arg Pro Gly Ala Val Leu Lys Asp Phe Thr Val  
 115 120 125  
 Ser Gly Asn Leu Leu Phe Ile Arg Leu Thr Ala Ala Asp His Arg Gln  
 130 135 140  
 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met  
 145 150 155 160  
 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Ala Pro Ser  
 165 170 175  
 Gly Gln Arg Arg  
 180

<210> 76  
 <211> 210  
 <212> PRT  
 <213> Homo sapiens

<400> 76  
 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp  
 1 5 10 15  
 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly  
 20 25 30  
 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala  
 35 40 45  
 Gly Ala Ala Arg Ala Ser Gly Pro Arg Gly Gly Ala Pro Arg Gly Pro  
 50 55 60  
 His Gly Gly Ala Ala Ser Ala Gln Asp Gly Arg Cys Pro Cys Gly Ala  
 65 70 75 80  
 Arg Arg Pro Asp Ser Arg Leu Leu Glu Leu His Ile Thr Met Pro Phe



Gly	Gln	Met	Ile	Asn	Leu	Arg	Arg	Leu	Leu	Leu	Ser	His	Ile	His	Ala	
			260					265					270			
Ser	Ser	Tyr	Ile	Ser	Pro	Glu	Lys	Glu	Glu	Gln	Tyr	Ile	Ala	Gln	Phe	
		275					280					285				
Thr	Ser	Gln	Phe	Leu	Ser	Leu	Gln	Cys	Leu	Gln	Ala	Leu	Tyr	Val	Asp	
		290				295					300					
Ser	Leu	Phe	Phe	Leu	Arg	Gly	Arg	Leu	Asp	Gln	Leu	Leu	Arg	His	Val	
305					310					315					320	
Met	Asn	Pro	Leu	Glu	Thr	Leu	Ser	Ile	Thr	Asn	Cys	Arg	Leu	Ser	Glu	
				325					330						335	
Gly	Asp	Val	Met	His	Leu	Ser	Gln	Ser	Pro	Ser	Val	Ser	Gln	Leu	Ser	
		340						345							350	
Val	Leu	Ser	Leu	Ser	Gly	Val	Met	Leu	Thr	Asp	Val	Ser	Pro	Glu	Pro	
		355					360					365				
Leu	Gln	Ala	Leu	Leu	Glu	Arg	Ala	Ser	Ala	Thr	Leu	Gln	Asp	Leu	Val	
		370				375						380				
Phe	Asp	Glu	Cys	Gly	Ile	Thr	Asp	Asp	Gln	Leu	Leu	Ala	Leu	Leu	Pro	
385					390					395					400	
Ser	Leu	Ser	His	Cys	Ser	Gln	Leu	Thr	Thr	Leu	Ser	Phe	Tyr	Gly	Asn	
			405						410						415	
Ser	Ile	Ser	Ile	Ser	Ala	Leu	Gln	Ser	Leu	Leu	Gln	His	Leu	Ile	Gly	
			420					425							430	
Leu	Ser	Asn	Leu	Thr	His	Val	Leu	Tyr	Pro	Val	Pro	Leu	Glu	Ser	Tyr	
		435					440					445				
Glu	Asp	Ile	His	Gly	Thr	Leu	His	Leu	Glu	Arg	Leu	Ala	Tyr	Leu	His	
	450					455					460					
Ala	Arg	Leu	Arg	Glu	Leu	Leu	Cys	Glu	Leu	Gly	Arg	Pro	Ser	Met	Val	
465					470					475					480	
Trp	Leu	Ser	Ala	Asn	Pro	Cys	Pro	His	Cys	Gly	Asp	Arg	Thr	Phe	Tyr	
				485					490						495	
Asp	Pro	Glu	Pro	Ile	Leu	Cys	Pro	Cys	Phe	Met	Pro	Asn				
			500					505								

<210> 78  
 <211> 261  
 <212> PRT  
 <213> Homo sapiens

<400> 78

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Lys	His	Ser	Gln	Pro	Trp	Gln	Val	Leu	Val	Ala	Ser	Arg	Gly	Arg	Ala	
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Val	Cys	Gly	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Thr	Ala	Ala	
	50					55					60					
His	Cys	Ile	Arg	Asn	Lys	Ser	Val	Ile	Leu	Leu	Gly	Arg	His	Ser	Leu	
65					70					75					80	
Phe	His	Pro	Glu	Asp	Thr	Gly	Gln	Val	Phe	Gln	Val	Ser	His	Ser	Phe	
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Pro	His	Pro	Leu	Tyr	Asp	Met	Ser	Leu	Leu	Lys	Asn	Arg	Phe	Leu	Arg	
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Pro	Gly	Asp	Asp	Ser	Ser	His	Asp	Leu	Met	Leu	Leu	Arg	Leu	Ser	Glu	
		115					120					125				
Pro	Ala	Glu	Leu	Thr	Asp	Ala	Val	Lys	Val	Met	Asp	Leu	Pro	Thr	Gln	

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 <212> PRT  
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<400> 79
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50 55 60
Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
65 70 75 80
Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<210> 84
<211> 752
<212> DNA
<213> Homo sapiens

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<400> 84
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gccaactgca gctctccatc agctcctgtc tcagcagct ttccctgttg atgtggatca 540
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<210> 85
<211> 2148
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(2)
<223> n = A,T,C or G

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<400> 85
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actctctgag gaaaaacat tttgattatt actctcagac gtgcgtggca acaagtgact 180
gagacctaga aatccaagcg ttggaggtcc tgaggccagc ctaagtgcgt tcaaaatgga 240
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<210> 86

<211> 1466

<212> DNA

<213> Homo sapiens

<400> 86

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cagaaataaa gagctgttat actgtg 1466

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<210> 87
<211> 990
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(990)
<223> n = A,T,C or G

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<400> 87
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<210> 88
<211> 702
<212> PRT
<213> Homo sapiens

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<400> 88
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Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
35 40 45
Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
50 55 60
Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
65 70 75 80
Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
85 90 95
Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile
100 105 110
Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp

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Asp	Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Thr	Gln	Asp	Ala	Thr	Tyr
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			180					185					190		
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	195						200					205			
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Thr	Ile	Ser	Pro	Leu	Asn	Thr	Ser	Tyr	Arg	Ser	Gly	Glu	Asn	Leu	Asn
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Glu	Pro	Pro	Lys	Pro	Phe	Ile	Thr	Ser	Asn	Asn	Ser	Asn	Pro	Val	Glu
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Val	Asp	His	Ser	Asp	Pro	Val	Ile	Leu	Asn	Val	Leu	Tyr	Gly	Pro	Asp
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465					470					475					480
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Ser	Ala	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys	Pro
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Phe	Ile	Ala	Lys	Ile	Thr	Pro	Asn	Asn	Asn	Gly	Thr	Tyr	Ala	Cys	Phe
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 <212> DNA  
 <213> Homo sapiens

<400> 89

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<210> 90  
 <211> 1255  
 <212> PRT  
 <213> Homo sapiens

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Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
 35          40          45
Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
 50          55          60
Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
 65          70          75          80
Gln Gly Tyr Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu
 85          90          95
Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
100          105          110
Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro
115          120          125
Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
130          135          140
Leu Thr Glu Ile Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
145          150          155          160
Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn
165          170          175
Asn Gln Leu Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys
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His Pro Cys Ser Pro Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser
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Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys
210          215          220
Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys
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Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu
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His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val

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Arg Lys Val Lys Val Leu Gly Ser Gly Ala Phe Gly Thr Val Tyr Lys  
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 Gly Ile Trp Ile Pro Asp Gly Glu Asn Val Lys Ile Pro Val Ala Ile  
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 Lys Val Leu Arg Glu Asn Thr Ser Pro Lys Ala Asn Lys Glu Ile Leu  
 755 760 765  
 Asp Glu Ala Tyr Val Met Ala Gly Val Gly Ser Pro Tyr Val Ser Arg  
 770 775 780  
 Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val Thr Gln Leu  
 785 790 795 800  
 Met Pro Tyr Gly Cys Leu Leu Asp His Val Arg Glu Asn Arg Gly Arg  
 805 810 815  
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 820 825 830  
 Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu Ala Ala  
 835 840 845  
 Arg Asn Val Leu Val Lys Ser Pro Asn His Val Lys Ile Thr Asp Phe  
 850 855 860  
 Gly Leu Ala Arg Leu Leu Asp Ile Asp Glu Thr Glu Tyr His Ala Asp  
 865 870 875 880  
 Gly Gly Lys Val Pro Ile Lys Trp Met Ala Leu Glu Ser Ile Leu Arg  
 885 890 895  
 Arg Arg Phe Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val  
 900 905 910  
 Trp Glu Leu Met Thr Phe Gly Ala Lys Pro Tyr Asp Gly Ile Pro Ala  
 915 920 925  
 Arg Glu Ile Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Pro Gln Pro  
 930 935 940  
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 Ser Pro Leu Ala Pro Ser Glu Gly Ala Gly Ser Asp Val Phe Asp Gly  
 1075 1080 1085  
 Asp Leu Gly Met Gly Ala Ala Lys Gly Leu Gln Ser Leu Pro Thr His  
 1090 1095 1100  
 Asp Pro Ser Pro Leu Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro Leu  
 1105 1110 1115 1120  
 Pro Ser Glu Thr Asp Gly Tyr Val Ala Pro Leu Thr Cys Ser Pro Gln  
 1125 1130 1135  
 Pro Glu Tyr Val Asn Gln Pro Asp Val Arg Pro Gln Pro Pro Ser Pro  
 1140 1145 1150  
 Arg Glu Gly Pro Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu  
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Gly Gly Ala Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser Pro Ala		1200
	1205	1210
Phe Asp Asn Leu Tyr Tyr Trp Asp Gln Asp Pro Pro Glu Arg Gly Ala		1215
	1220	1225
Pro Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu Asn Pro Glu Tyr		1230
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<210> 91  
 <211> 4530  
 <212> DNA  
 <213> Homo sapiens

<400> 91

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<210> 92  
 <211> 976  
 <212> PRT  
 <213> Homo sapiens

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Thr Phe Phe Lys Ser Phe Asn Lys Cys Thr Glu Asp Asp Leu Glu Phe
             35             40             45
Pro Phe Ala Lys Thr Asn Leu Ser Lys Asn Gly Glu Asn Ile Asp Ser
             50             55             60
Asp Pro Ala Leu Gln Lys Val Asn Phe Leu Pro Val Leu Glu Gln Val
             65             70             75             80
Gly Asn Ser Asp Cys His Tyr Gln Glu Gly Leu Lys Asp Ser Asp Leu
             85             90             95

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Gln	Lys	Glu	Ser	Lys	Leu	Gln	Glu	Asn	Arg	Lys	Ile	Ile	Glu	Ala	Gln	130	135	140
Arg	Lys	Ala	Ile	Gln	Glu	Leu	Gln	Phe	Gly	Asn	Glu	Lys	Val	Ser	Leu	145	150	155
Lys	Leu	Glu	Glu	Gly	Ile	Gln	Glu	Asn	Lys	Asp	Leu	Ile	Lys	Glu	Asn	165	170	175
Asn	Ala	Thr	Arg	His	Leu	Cys	Asn	Leu	Leu	Lys	Glu	Thr	Cys	Ala	Arg	180	185	190
Ser	Ala	Glu	Lys	Thr	Lys	Lys	Tyr	Glu	Tyr	Glu	Arg	Glu	Glu	Thr	Arg	195	200	205
Gln	Val	Tyr	Met	Asp	Leu	Asn	Asn	Asn	Ile	Glu	Lys	Met	Ile	Thr	Ala	210	215	220
His	Gly	Glu	Leu	Arg	Val	Gln	Ala	Glu	Asn	Ser	Arg	Leu	Glu	Met	His	225	230	235
Phe	Lys	Leu	Lys	Glu	Asp	Tyr	Glu	Lys	Ile	Gln	His	Leu	Glu	Gln	Glu	245	250	255
Tyr	Lys	Lys	Glu	Ile	Asn	Asp	Lys	Glu	Lys	Gln	Val	Ser	Leu	Leu	Leu	260	265	270
Ile	Gln	Ile	Thr	Glu	Lys	Glu	Asn	Lys	Met	Lys	Asp	Leu	Thr	Phe	Leu	275	280	285
Leu	Glu	Glu	Ser	Arg	Asp	Lys	Val	Asn	Gln	Leu	Glu	Glu	Lys	Thr	Lys	290	295	300
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Thr	Lys	Glu	Leu	Glu	Asp	Ile	Lys	Val	Ser	Leu	Gln	Arg	Ser	Val	Ser	325	330	335
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Cys	Gln	Leu	Thr	Glu	Glu	Lys	Glu	Thr	Gln	Met	Glu	Glu	Ser	Asn	Lys	355	360	365
Ala	Arg	Ala	Ala	His	Ser	Phe	Val	Val	Thr	Glu	Phe	Glu	Thr	Thr	Val	370	375	380
Cys	Ser	Leu	Glu	Glu	Leu	Leu	Arg	Thr	Glu	Gln	Arg	Leu	Glu	Lys		385	390	395
Asn	Glu	Asp	Gln	Leu	Lys	Ile	Leu	Thr	Met	Glu	Leu	Gln	Lys	Lys	Ser	405	410	415
Ser	Glu	Leu	Glu	Glu	Met	Thr	Lys	Leu	Thr	Asn	Asn	Lys	Glu	Val	Glu	420	425	430
Leu	Glu	Glu	Leu	Lys	Lys	Val	Leu	Gly	Glu	Lys	Glu	Thr	Leu	Leu	Tyr	435	440	445
Glu	Asn	Lys	Gln	Phe	Glu	Lys	Ile	Ala	Glu	Glu	Leu	Lys	Gly	Thr	Glu	450	455	460
Gln	Glu	Leu	Ile	Gly	Leu	Leu	Gln	Ala	Arg	Glu	Lys	Glu	Val	His	Asp	465	470	475
Leu	Glu	Ile	Gln	Leu	Thr	Ala	Ile	Thr	Thr	Ser	Glu	Gln	Tyr	Tyr	Ser	485	490	495
Lys	Glu	Val	Lys	Asp	Leu	Lys	Thr	Glu	Leu	Glu	Asn	Glu	Lys	Leu	Lys	500	505	510
Asn	Thr	Glu	Leu	Thr	Ser	His	Cys	Asn	Lys	Leu	Ser	Leu	Glu	Asn	Lys	515	520	525
Glu	Leu	Thr	Gln	Glu	Thr	Ser	Asp	Met	Thr	Leu	Glu	Leu	Lys	Asn	Gln	530	535	540
Gln	Glu	Asp	Ile	Asn	Asn	Asn	Lys	Lys	Gln	Glu	Glu	Arg	Met	Leu	Lys			

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Gln	Ile	Glu	Asn	Leu	Gln	Glu	Thr	Glu	Thr	Gln	Leu	Arg	Asn	Glu	Leu
				565					570					575	
Glu	Tyr	Val	Arg	Glu	Glu	Leu	Lys	Gln	Lys	Arg	Asp	Glu	Val	Lys	Cys
			580					585					590		
Lys	Leu	Asp	Lys	Ser	Glu	Glu	Asn	Cys	Asn	Asn	Leu	Arg	Lys	Gln	Val
		595					600					605			
Glu	Asn	Lys	Asn	Lys	Tyr	Ile	Glu	Glu	Leu	Gln	Gln	Glu	Asn	Lys	Ala
	610					615					620				
Leu	Lys	Lys	Lys	Gly	Thr	Ala	Glu	Ser	Lys	Gln	Leu	Asn	Val	Tyr	Glu
625				630						635					640
Ile	Lys	Val	Asn	Lys	Leu	Glu	Leu	Glu	Leu	Glu	Ser	Ala	Lys	Gln	Lys
			645						650					655	
Phe	Gly	Glu	Ile	Thr	Asp	Thr	Tyr	Gln	Lys	Glu	Ile	Glu	Asp	Lys	Lys
		660					665						670		
Ile	Ser	Glu	Glu	Asn	Leu	Leu	Glu	Glu	Val	Glu	Lys	Ala	Lys	Val	Ile
	675						680					685			
Ala	Asp	Glu	Ala	Val	Lys	Leu	Gln	Lys	Glu	Ile	Asp	Lys	Arg	Cys	Gln
	690					695					700				
His	Lys	Ile	Ala	Glu	Met	Val	Ala	Leu	Met	Glu	Lys	His	Lys	His	Gln
705				710						715					720
Tyr	Asp	Lys	Ile	Ile	Glu	Glu	Arg	Asp	Ser	Glu	Leu	Gly	Leu	Tyr	Lys
			725					730					735		
Ser	Lys	Glu	Gln	Glu	Gln	Ser	Ser	Leu	Arg	Ala	Ser	Leu	Glu	Ile	Glu
		740					745						750		
Leu	Ser	Asn	Leu	Lys	Ala	Glu	Leu	Ser	Val	Lys	Lys	Gln	Leu	Glu	
	755						760					765			
Ile	Glu	Arg	Glu	Glu	Lys	Glu	Lys	Leu	Lys	Arg	Glu	Ala	Lys	Glu	Asn
	770					775					780				
Thr	Ala	Thr	Leu	Lys	Glu	Lys	Lys	Asp	Lys	Lys	Thr	Gln	Thr	Phe	Leu
785				790						795					800
Leu	Glu	Thr	Pro	Glu	Ile	Tyr	Trp	Lys	Leu	Asp	Ser	Lys	Ala	Val	Pro
			805					810						815	
Ser	Gln	Thr	Val	Ser	Arg	Asn	Phe	Thr	Ser	Val	Asp	His	Gly	Ile	Ser
		820					825						830		
Lys	Asp	Lys	Arg	Asp	Tyr	Leu	Trp	Thr	Ser	Ala	Lys	Asn	Thr	Leu	Ser
	835						840					845			
Thr	Pro	Leu	Pro	Lys	Ala	Tyr	Thr	Val	Lys	Thr	Pro	Thr	Lys	Pro	Lys
	850					855					860				
Leu	Gln	Gln	Arg	Glu	Asn	Leu	Asn	Ile	Pro	Ile	Glu	Glu	Ser	Lys	Lys
865				870						875					880
Lys	Arg	Lys	Met	Ala	Phe	Glu	Phe	Asp	Ile	Asn	Ser	Asp	Ser	Ser	Glu
			885					890					895		
Thr	Thr	Asp	Leu	Leu	Ser	Met	Val	Ser	Glu	Glu	Glu	Thr	Leu	Lys	Thr
		900					905						910		
Leu	Tyr	Arg	Asn	Asn	Asn	Pro	Pro	Ala	Ser	His	Leu	Cys	Val	Lys	Thr
	915					920						925			
Pro	Lys	Lys	Ala	Pro	Ser	Ser	Leu	Thr	Thr	Pro	Gly	Pro	Thr	Leu	Lys
	930					935					940				
Phe	Gly	Ala	Ile	Arg	Lys	Met	Arg	Glu	Asp	Arg	Trp	Ala	Val	Ile	Ala
945				950						955					960
Lys	Met	Asp	Arg	Lys	Lys	Lys	Leu	Lys	Glu	Ala	Glu	Lys	Leu	Phe	Val
			965					970						975	

<210> 93

<211> 3393

<212> DNA  
 <213> Homo sapiens

<400> 93  
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 gttcgtacca ccgagatcaa gcagcagtca ggtgtctgcg gtgaaacctc agacctggg 180  
 aggcgattcc actttcttca agagtttcaa caaatgtact gaagatgatt tggagtttcc 240  
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 aaaagttaat ttcttgcccg tgcttgagca ggttggtaat tctgactgtc actatcagga 360  
 aggactaaaa gactctgatt tggagaattc agagggattg agcagagtgt tttcaaaact 420  
 gtataaggag gctgaaaaga taaaaaatg gaaagtaagt acagaagctg aactgagaca 480  
 gaaagaaagt aagttgcaag aaaacagaaa gataattgaa gcacagcgaa aagccattca 540  
 ggaactgcaa tttggaatg aaaaagtaag tttgaaatta gaagaaggaa tacaagaaaa 600  
 taaagattta ataaaagaga ataatgccac aaggcattta tgtaatctac tcaaagaaac 660  
 ctgtgctaga tctgcagaaa agacaaaaga atatgaatat gaacgggaag aaaccaggca 720  
 agtttatatg gatctaaata ataacattga gaaaatgata acagctcatg gggaacttcg 780  
 tgtgcaagct gagaattcca gactggaaat gcatttttaag ttaaagggaag attatgaaaa 840  
 aatccaacac cttgaacaag aatacaagaa ggaaataaat gacaaggaaa agcaggtatc 900  
 actactattg atccaaatca ctgagaaaga aaataaaatg aaagatttaa catttctgct 960  
 agaggaatcc agagataaag ttaatcaatt agaggaaaag acaaaattac agagtgaaaa 1020  
 cttaaaacaa tcaattgaga aacagcatca tttgactaaa gaactagaag atattaaagt 1080  
 gtcattacaa agaagtgtga gtactcaaaa ggcttttagag gaagatttac agatagcaac 1140  
 aaaaacaatt tgtcagctaa ctgaagaaaa agaaactcaa atggaagaat ctaataaagc 1200  
 tagagctgct cattcgtttg tggttactga atttgaaact actgtctgca gcttggaaga 1260  
 attattgaga acagaacagc aaagattgga aaaaaatgaa gatcaattga aaatacttac 1320  
 catggagctt caaaagaaat caagtgaagt ggaagagatg actaagctta caaataacaa 1380  
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 aaataaaciaa tttgagaaga ttgctgaaga attaaaagga acagaacaag aactaatttg 1500  
 tcttctccaa gccagagaga aagaagtaca tgatttggaa atacagttaa ctgccattac 1560  
 cacaagtga cagtattatt caaaagaggt taaagatcta aaaactgagc ttgaaaacga 1620  
 gaagcttaag aatactgaat taacttcaca ctgcaacaag ctttcactag aaaacaaaga 1680  
 gctcacacag gaaacaagt atatgacctt agaactcaag aatcagcaag aagatattaa 1740  
 taataacaaa aagcaagaag aaaggatgtt gaaacaaata gaaaatcttc aagaaacaga 1800  
 aaccaatta agaatgaac tagaatatgt gagagaagag ctaaaacaga aaagagatga 1860  
 agttaaatgt aaattggaca agagtgaaga aaattgtaac aatttaagga aacaagttga 1920  
 aaataaaaaa aagtatatgt aagaacttca gcaggagaat aaggccttga aaaaaaagg 1980  
 tacagcagaa agcaagcaac tgaatgttta tgagataaag gtcaataaat tagagttaga 2040  
 actagaaagt gccaaacaga aatttgagaa aatcacagac acctatcaga aagaaattga 2100  
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 aatggtagca cttatggaaa aacataagca ccaatatgat aagatcattg aagaaagaga 2280  
 ctcagaatta ggactttata agagcaaaga acaagaacag tcatcactga gagcatcttt 2340  
 ggagattgaa ctatccaatc tcaaagctga acttttgtct gttagaagc aacttgaaat 2400  
 agaaagagaa gagaaggaaa aactcaaaaag agaggcaaaa gaaaacacag ctactcttaa 2460  
 agaaaaaaaa gacaagaaaa cacaacacatt tttattggaa acacctgaaa tttattggaa 2520  
 attggattct aaagcagttc cttcacaaac tgtatctcga aatttcacat cagttgatca 2580  
 tggcatatcc aaagataaaa gagactatct gtggacatct gccaaaaata ctttatctac 2640  
 accattgcc aaggcatata cagtgaagac accaacaaaa ccaaaactac agcaaagaga 2700  
 aaacttgaat ataccattg aagaaagtaa aaaaaagaga aaaatggcct ttgaatttga 2760  
 tattaattca gatagttcag aaactactga tcttttgagc atggtttcag aagaagagac 2820  
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 aaaaaaggcc cttcatctc taacaacccc tggacctaca ctgaagtttg gagctataag 2940  
 aaaaatgcgg gaggaccgtt gggctgtaat tgctaaaatg gatagaaaaa aaaaactaaa 3000  
 agaagctgaa aagttatttg ttttaattca gagaatcagt gtagttaagg agcctaataa 3060  
 cgtgaaactt atagtttaata ttttgttctt atttgccaga gccacatttt atctggaagt 3120  
 tgagacttaa aaaatacttg catgaatgat ttgtgtttct ttatatTTTT agcctaaatg 3180

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ttaactacat attgtctgga aacctgtcat tgtattcaga taattagatg attatatatt 3240
gttggttactt tttcttgat tcatgaaaac tgtttttact aagttttcaa atttgtaaag 3300
ttagcctttg aatgctagga atgcattatt gagggtcatt ctttattctt tactattaaa 3360
atatttttga tgcaaaaaaa aaaaaaaaaa aaa 3393

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<210> 94
<211> 188
<212> PRT
<213> Homo sapiens

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<400> 94
Met Asn Gly Asp Asp Ala Phe Ala Arg Arg Pro Arg Asp Asp Ala Gln
 1          5          10          15
Ile Ser Glu Lys Leu Arg Lys Ala Phe Asp Asp Ile Ala Lys Tyr Phe
 20         25         30
Ser Lys Lys Glu Trp Glu Lys Met Lys Ser Ser Glu Lys Ile Val Tyr
 35         40         45
Val Tyr Met Lys Leu Asn Tyr Glu Val Met Thr Lys Leu Gly Phe Lys
 50         55         60
Val Thr Leu Pro Pro Phe Met Arg Ser Lys Arg Ala Ala Asp Phe His
 65         70         75         80
Gly Asn Asp Phe Gly Asn Asp Arg Asn His Arg Asn Gln Val Glu Arg
 85         90         95
Pro Gln Met Thr Phe Gly Ser Leu Gln Arg Ile Phe Pro Lys Ile Met
100        105        110
Pro Lys Lys Pro Ala Glu Glu Glu Asn Gly Leu Lys Glu Val Pro Glu
115        120        125
Ala Ser Gly Pro Gln Asn Asp Gly Lys Gln Leu Cys Pro Pro Gly Asn
130        135        140
Pro Ser Thr Leu Glu Lys Ile Asn Lys Thr Ser Gly Pro Lys Arg Gly
145        150        155        160
Lys His Ala Trp Thr His Arg Leu Arg Glu Arg Lys Gln Leu Val Val
165        170        175
Tyr Glu Glu Ile Ser Asp Pro Glu Glu Asp Asp Glu
180        185

```

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<210> 95
<211> 576
<212> DNA
<213> Homo sapiens

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<400> 95
atgaacggag acgacgcctt tgcaaggaga cccaggggatg atgctcaa atcagagaag 60
ttacgaaagg ccttcgatga tattgccaaa tacttctcta agaaagagtg ggaaaagatg 120
aaatcctcgg agaaaatcgt ctatgtgtat atgaagctaa actatgaggt catgactaaa 180
ctaggtttca aggtcacctt cccaccttct atgcgtagta aacgggctgc agacttccac 240
gggaatgatt ttggtaacga tcgaaaccac aggaatcagg ttgaacgtcc tcagatgact 300
ttcggcagcc tccagagaat cttcccgaag atcatgccca agaagccagc agaggaagaa 360
aatggtttga aggaagtgcc agaggcatct ggcccacaaa atgatgggaa acagctgtgc 420
cccccgggaa atccaagtac cttggagaag attaacaaga catctggacc caaaaggggg 480
aaacatgcct ggacccacag actgcgtgag agaaagcagc tgggtggttta tgaagagatc 540
agcgaccctg aggaagatga cgagtaactc ccctcg 576

```

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<210> 96
<211> 94
<212> PRT

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<213> Homo sapiens

<400> 96

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Pro Ala Thr Gln Arg Gln Asp Pro Ala Ala Ala Gln Glu Gly Glu Asp
 1           5           10           15
Glu Gly Ala Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala Asp Ser Gln
          20           25           30
Glu Gln Gly His Pro Gln Thr Gly Cys Glu Cys Glu Asp Gly Pro Asp
          35           40           45
Gly Gln Glu Met Asp Pro Pro Asn Pro Glu Glu Val Lys Thr Pro Glu
          50           55           60
Glu Glu Met Arg Ser His Tyr Val Ala Gln Thr Gly Ile Leu Trp Leu
65           70           75           80
Leu Met Asn Asn Cys Phe Leu Asn Leu Ser Pro Arg Lys Pro
          85           90
```

<210> 97

<211> 646

<212> DNA

<213> Homo sapiens

<400> 97

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ctgccgtccg gactcttttt cctctactga gattcatctg tgtgaaatat gagttggcga 60
ggaagatcga cctatcggcc tagaccaaga cgctacgtag agcctcctga aatgattggg 120
cctatgcggc ccgagcagtt cagtgatgaa gtggaaccag caacacctga agaaggggaa 180
ccagcaactc aacgtcagga tcctgcagct gctcaggagg gagaggatga gggagcatct 240
gcaggtcaag ggccgaagcc tgaagctgat agccaggaac agggtcaccc acagactggg 300
tgtgagtgtg aagatgggcc tgatgggcag gagatggacc cgccaaatcc agaggagggtg 360
aaaacgcctg aagaagagat gaggtctcac tatgttgccc agactgggat tctctggctt 420
ttaatgaaca attgcttctt aaatctttcc ccacggaaac cttgagtgcac tgaaatatca 480
aatggcgaga gaccgttttag ttcctatcat ctgtggcatg tgaagggcaa tcacagtgtt 540
aaaagaagac atgctgaaat gttgcaggct gctcctatgt tggaaaattc ttcattgaag 600
ttctcccaat aaagctttac agccttctgc aaagaaaaaa aaaaaa 646
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<210> 98

<211> 98

<212> PRT

<213> Homo sapiens

<400> 98

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His Cys Pro Thr Glu Asn Glu Pro Asp Leu Ala Gln Cys Phe Phe Cys
 1           5           10           15
Phe Lys Glu Leu Glu Gly Trp Glu Pro Asp Asp Asp Pro Ile Glu Glu
          20           25           30
His Lys Lys His Ser Ser Gly Cys Ala Phe Leu Ser Val Lys Lys Gln
          35           40           45
Phe Glu Glu Leu Thr Leu Gly Glu Phe Leu Lys Leu Asp Arg Glu Arg
          50           55           60
Ala Lys Asn Lys Ile Ala Lys Glu Thr Asn Asn Lys Lys Lys Glu Phe
65           70           75           80
Glu Glu Thr Ala Lys Lys Val Arg Arg Ala Ile Glu Gln Leu Ala Ala
          85           90           95
Met Asp
```

<210> 99  
 <211> 1619  
 <212> DNA  
 <213> Homo sapiens

<400> 99  
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 gacgttgccc cctgcctggc agccctttct caaggaccac cgcatctcta cattcaagaa 120  
 ctggcccttc ttggagggct gcgcctgcac cccggagcgg atggccgagg ctggcttcat 180  
 ccactgcccc actgagaacg agccagactt ggcccagtggt ttcttctgct tcaaggagct 240  
 ggaaggctgg gagccagatg acgaccccat agaggaacat aaaaagcatt cgtccggttg 300  
 cgctttcctt tctgtcaaga agcagtttga agaattaacc cttggtgaat ttttgaaact 360  
 ggacagagaa agagccaaga acaaaattgc aaaggaaacc aacaataaga agaaagaatt 420  
 tgaggaaact gcgaagaaag tgccgcgtgc catcgagcag ctggctgcca tggattgagg 480  
 cctctggccg gagctgcctg gtcccagagt ggctgcacca cttccagggt ttattccctg 540  
 gtgccaccag ccttcctgtg ggccccttag caatgtctta ggaaaggaga tcaacatttt 600  
 caaattagat gtttcaactg tgctcctggt ttgtcttgaa agtggcacca gaggtgcttc 660  
 tgctgtgca gcgggtgctg ctggtaacag tggtgcttc tctctctctc tctctttttt 720  
 gggggctcat ttttgctgtt ttgattcccg ggcttaccag gtgagaagtg agggaggaag 780  
 aaggcagtg cctttttgct agagctgaca gctttgttcg cgtgggcaga gccttcaca 840  
 gtgaatgtgt ctggacctca tgttgttgag gctgtcacag tcctgagtggt ggacttggca 900  
 ggtgcctgtt gaatctgagc tgcaggttcc ttatctgtca cactgtgcc tcctcagagg 960  
 acagtttttt tggtgtgtgt tttttttgtt tttttttttt ggtagatgca tgacttgtgt 1020  
 gtgatgagag aatggagaca ggtccctgg ctcctctact gtttaacaac atggctttct 1080  
 tattttgttt gaattgttaa ttcacagaat agcacaact acaattaaa ctaagcaca 1140  
 agccattcta agtcattggg gaaacggggt gaacttcagg tggatgagga gacagaatag 1200  
 agtgatagga agcgtctggc agatactcct ttggccactg ctgtgtgatt agacaggccc 1260  
 agtgagccgc ggggcacatg ctggccgctc ctccctcaga aaaaggcagt ggcctaaatc 1320  
 ctttttaaat gacttggctc gatgtgtgg gggactggct gggctgctgc aggcctgtgt 1380  
 tctgtcagcc caaccttcac atctgtcacg ttctccacac gggggagaga cgcagtcgc 1440  
 ccagggtcccc gctttctttg gaggcagcag ctcccgagg gctgaagtct ggcgtaagat 1500  
 gatggatttg attcgccctc ctccctgtca tagagctgca ggggtggattg ttacagcttc 1560  
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<210> 100  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
 Cys Trp Tyr Cys Arg Arg Arg Asn Gly Tyr Arg Ala Leu Met Asp Lys  
 1 5 10 15  
 Ser Leu His Val Gly Thr Gln Cys Ala Leu Thr Arg Arg Cys Pro Gln  
 20 25 30  
 Glu Gly Phe Asp His Arg Asp Ser Lys Val Ser Leu Gln Glu Lys Asn  
 35 40 45  
 Cys Glu Pro Val Val Pro Asn Ala Pro Pro Ala Tyr Glu Lys Leu Ser  
 50 55 60  
 Ala Glu Gln Ser Pro Pro Pro Tyr Ser Pro  
 65 70

<210> 101  
 <211> 1524  
 <212> DNA  
 <213> Homo sapiens

<400> 101

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agcagacaga ggactctcat taaggaaggt gtctgtgcc ctgaccctac aagatgccaa 60
gagaagatgc tcacttcac tatggttacc ccaagaagg gcacggccac tcttacacca 120
cggctgaaga ggccgctggg atcgcatcc tgacagtgat cctgggagtc ttactgctca 180
tcggctggtg gtattgtaga agacgaaatg gatacagagc cttgatggat aaaagtcttc 240
atgttggcac tcaatgtgcc ttaacaagaa gatgccaca agaagggttt gatcatcggg 300
acagcaaagt gtctcttcaa gagaaaaact gtgaacctgt ggteccaat gctccacctg 360
cttatgagaa actctctgca gaacagtcac caccacctta ttcaccttaa gagccagcga 420
gacacctgag acatgctgaa attatttctc tcacactttt gcttgaattt aatacagaca 480
tctaattgtt tcctttggaa tgggttagga aaaatgcaag ccatctctaa taataagtca 540
gtgttaaaat tttagtaggt ccgctagcag tactaatcat gtgaggaaat gatgagaaat 600
attaaattgg gaaaactcca tcaataaatg ttgcaatgca tgatactatc tgtgccagag 660
gtaatgttag taaatccatg gtgttathtt ctgagagaca gaattcaagt gggatttctg 720
gggcatcca atttctcttt acttgaaatt tggctaataa caaactagtc aggttttctga 780
accttgaccg acatgaactg tacacagaat tgttccagta ctatggagtg ctacaaaagg 840
atactttttac aggttaagac aaagggttga ctggcctatt tatctgatca agaacatgtc 900
agcaatgtct ctttgtgctc taaaattcta ttatactaca ataatatatt gtaaagatcc 960
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ctctgagta gctgggatta caggcgtgcg ccactatgcc tgactaattt tgtagtttta 1140
gtagagacgg ggtttctcca tgttggtcag gctggtctca aactcctgac ctgaggtgat 1200
ctgcccgcct cagcctccca aagtgtgga attacaggc tgagccacca cgcctggctg 1260
gatcctatat cttaggttaag acatataacg cagtctaatt acatttact tcaaggctca 1320
atgctattct aactaatgac aagtattttc tactaaacca gaaattggta gaaggattta 1380
aataagtaaa agctactatg tactgcctta gtgctgatgc ctgtgtactg ccttaaattgt 1440
acctatggca atttagctct cttgggttcc caaatccctc tcacaagaat gtgcagaaga 1500
aatcataaag gatcagagat tctg 1524
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<210> 102

<211> 43

<212> PRT

<213> Homo sapiens

<400> 102

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Met Ala Ala Arg Ala Val Phe Leu Ala Leu Ser Ala Gln Leu Leu Gln
 1           5           10          15
Ala Arg Leu Met Lys Glu Glu Ser Pro Val Val Ser Trp Arg Leu Glu
      20           25           30
Pro Glu Asp Gly Thr Ala Leu Cys Phe Ile Phe
      35           40
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<210> 103

<211> 1004

<212> DNA

<213> Homo sapiens

<400> 103

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cgccaattta gggctctcgg tatctcccgc tgagctgctc tgttcccggc ttagaggacc 60
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gtggtggcaa cagagatggc agcgcagctg gagtgttagg agggcggcct gagcggtagg 180
agtggggctg gagcagtaag atggcgcca gagcggtttt tctggcattg tctgccagc 240
tgctccaagc caggctgatg aaggaggagt cccctgtggt gagctggagg ttggagcctg 300
aagacggcac agctctgtgc ttcactttct gaggttgtgg cagccacggt gatggagacg 360
gcagctcaac aggagcaata ggaggagatg gagtttctact gtgtcagcca ggatggctctc 420
gatctcctga cctcgtgatc cgcccgcctt ggccttccaa agtgccgaga ttacagcgat 480
gtgcattttg taagcacttt ggagccacta tcaaattgctg tgaagagaaa tgtaccacga 540
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tgtatcatta tccttgtgct gcaggagccg gctcctttca ggatttcagt cacatcttcc 600
tgctttgtcc agaacacatt gaccaagctc ctgaaagatg taagtttact acgcatagac 660
ttttaaaactt caaccaatgt atttactgaa aataacaaat gttgtaaatt ccctgagtgt 720
tattctactt gtattaaaag gtaataatac ataatcatta aaatctgagg gatcattgcc 780
agagattgtt ggggagggaa atgttatcaa cggtttcatt gaaattaaat ccaaaaagtt 840
atttcctcag aaaaatcaaa taaagtttgc atgtttttta ttcttaaaaac attttaaaaa 900
ccactgtaga atgatgtaaa tagggactgt gcagtatttc tgacatatac tataaaatta 960
ttaaaaagtc aatcagtatt caacatcttt tacactaaaa agcc 1004

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<210> 104  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 104  
 Trp Val Leu Thr Ala Ala His Cys Ile  
 1 5

<210> 105  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens

<400> 105  
 Pro Met Trp Phe Leu Val Leu Cys Leu Ala Leu Ser Leu Gly Gly Thr  
 1 5 10 15  
 Gly Ala Ala Pro Pro Ile Gln Ser Arg Ile Val Gly Gly Trp Glu Cys  
 20 25 30  
 Glu Gln His Ser Gln Pro Trp Gln Ala Ala Leu Tyr His Phe Ser Thr  
 35 40 45  
 Phe Gln Cys Gly Gly Ile Leu Val His Arg Gln Trp Val Leu Thr Ala  
 50 55 60  
 Ala His Cys Ile Ser Asp Asn Tyr Gln Leu Trp Leu Gly Arg His Asn  
 65 70 75 80  
 Leu Phe Asp Asp Glu Asn Thr Ala Gln Phe Val His Val Ser Glu Ser  
 85 90 95  
 Phe Pro His Pro Gly Phe Asn Met Ser Leu Leu Glu Asn His Thr Arg  
 100 105 110  
 Gln Ala Asp Glu Asp Tyr Ser His Asp Leu Met Leu Leu Arg Leu Thr  
 115 120 125  
 Glu Pro Ala Asp Thr Ile Thr Asp Ala Val Lys Val Val Glu Leu Pro  
 130 135 140  
 Thr Gln Glu Pro Glu Val Gly Ser Thr Cys Leu Ala Ser Gly Trp Gly  
 145 150 155 160  
 Ser Ile Glu Pro Glu Asn Phe Ser Phe Pro Asp Asp Leu Gln Cys Val  
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 Asp Leu Lys Ile Leu Pro Asn Asp Glu Cys Glu Lys Ala His Val Gln  
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 Lys Val Thr Asp Phe Met Leu Cys Val Gly His Leu Glu Gly Gly Lys  
 195 200 205  
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Gly Ser Leu Ala Val Ser Val Ser Lys Ile Val Val His Lys Asp Trp  
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